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(71) Applicant and

(72) Inventor: **TANAKA, Kunihide** [US/US]; 5131 Bordeaux Avenue, Irvine, CA 92064 (US).

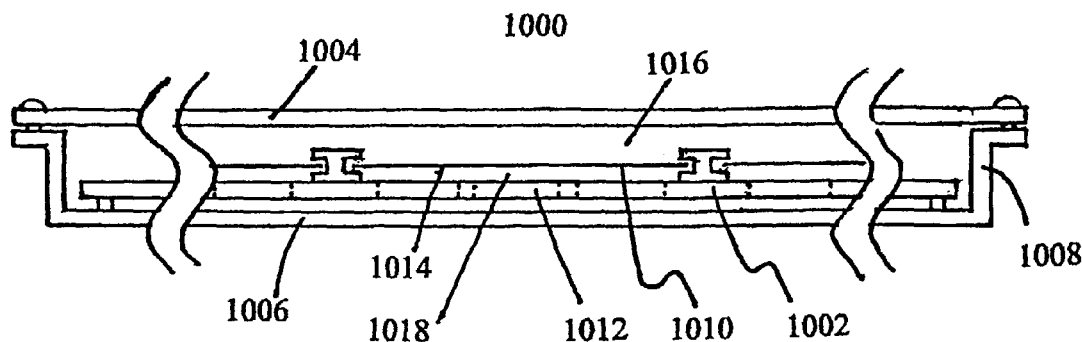
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(74) Agent: **KLIVANS, Norman, R.**; Skjerven Morrill LLP, 25 Metro Drive, Suite 700, San Jose, CA 95110 (US).

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(54) Title: SOLAR ENERGY CONVERTER USING OPTICAL CONCENTRATION THROUGH A LIQUID



(57) Abstract: Solar cells (1010) operating in liquid (1016) have an increased operating efficiency resulting from two independent physical phenomena, an increase in output current from the solar cells (1010) simply by wetting the front and back of the solar cells (1010) using a mounting table (1002), and enhanced collection of light through refraction and inner reflection of light in the liquid (1016). Dielectric liquids (1016) are found to increase output power efficiency of n/p junction solar cells (1010) and also function as a medium for optical concentration. The properties of dielectric liquid (1016) permit the construction of a solar cell panel (1000) with a suitable geometry for functioning as an optical concentrator.



WO 03/001610 A1